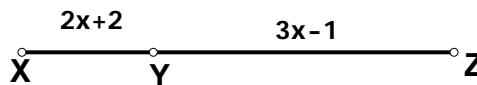


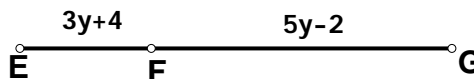
# SEMESTER 1 FINAL REVIEW WORKSHEET #1

## UNIT 1 – LINES, SEGMENTS, CONDITIONAL STATEMENTS

1. If  $XY = 12$ , what is the measure of  $XZ$ ?

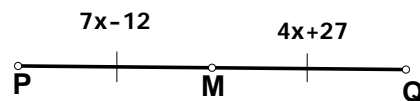


2. If  $EG = 42$ , find the value of  $y$ .



Use the picture at the right for numbers 3 and 4.

3. If M is the midpoint of  $\overline{PQ}$ , find the value of  $x$ .



4. Find the length of  $\overline{PQ}$ .

5. On the graph at the right, **PLOT AND LABEL** the following points:

A (-3, 0)      B (0, 2)      C (-3, 7)

D (6, -2)      E (2, 4)      F (-4, -3)

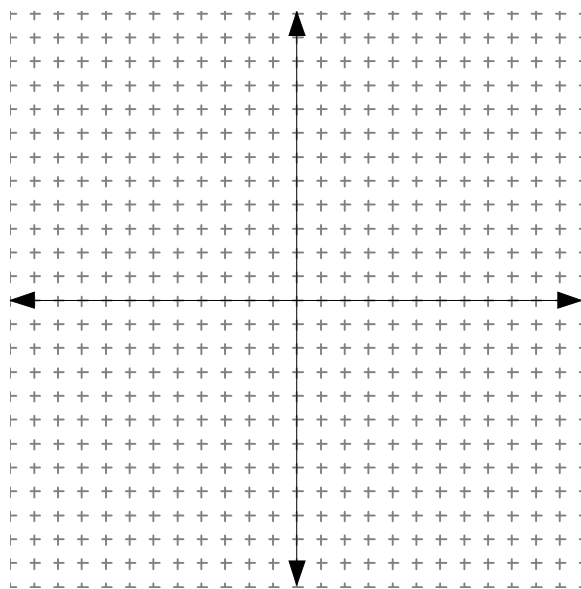
6. Find the midpoint of  $\overline{DE}$ . M (\_\_\_\_\_, \_\_\_\_\_)

7. Find the length of  $\overline{CF}$  (round to the nearest tenth).

d = \_\_\_\_\_

8. What is the slope of a line parallel to  $\overleftrightarrow{EF}$ ?  $m =$  \_\_\_\_\_

9. What is the slope of a line perpendicular to  $\overleftrightarrow{EF}$ ?  $m =$  \_\_\_\_\_



## UNIT 2 – ANGLES

**Pairs of angles:** Match the best answer(s) with each type of angle.

10. adjacent angles \_\_\_\_\_

11. complementary angles \_\_\_\_\_

12. linear pair angles \_\_\_\_\_

13. supplementary angles \_\_\_\_\_

14. vertical angles \_\_\_\_\_

a. two angles with the sum of  $90^\circ$

b. two angles with the sum of  $180^\circ$

c.  $\angle 1$  and  $\angle 2$

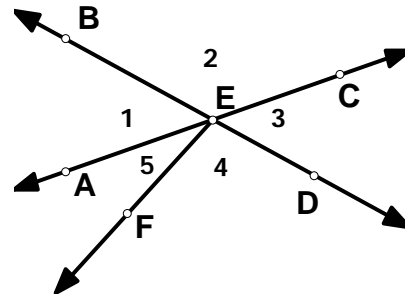
d.  $\angle 2$  and  $\angle AED$

e.  $\angle 5$  and  $\angle 4$

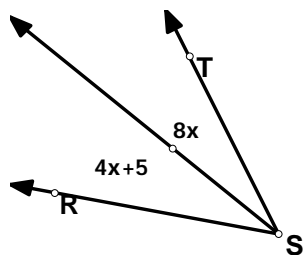
f.  $\angle 1$  and  $\angle 3$

g.  $\angle 3$  and  $\angle 4$

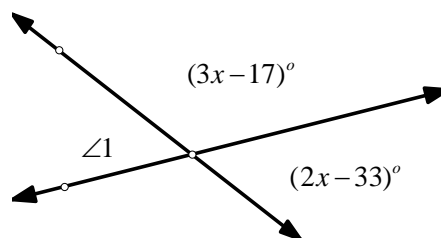
h.  $\angle 1$  and  $\angle AED$



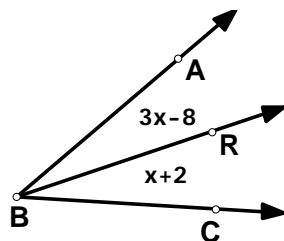
15. If  $m\angle RST = 65^\circ$ , find the value of  $x$ .



16. Find the value for  $x$  and the measure of angle 1.



17. If  $\overline{BR}$  bisects  $\angle ABC$ , find  $x$ .  
What is the measure of  $\angle ABR$ ?



18. Find the value of  $x$ .

